

WHAT IS CLAIMED IS:

1. An apparatus for inspecting insulation of a motor comprising:

a charged body which is arranged near an electrical wire for supplying a power to the motor, the charged body being electrically insulated from the electrical wire; and
5 a voltage measurement unit measuring an electromotive force induced in the electrical wire by the charged body.

2. An apparatus for inspecting the insulation of a motor comprising:

a conductor which is electrically connected to a motor electrical wire for supplying a power to the motor;

a charged body which is arranged near an electrical wire for supplying a power to the motor, the charged body being electrically insulated from the motor electrical wire and the conductor; and

15 a voltage measurement device measuring an electromotive force induced in the conductor by the charged body.

3. An apparatus according to claim 1, wherein the charged body is an AC electrical wire in which an alternating current flows.

20 4. An apparatus according to claim 3, wherein the AC electrical wire is a power line for supplying a power to a control device of the motor, and is arranged along the motor electrical wire.

5. An apparatus according to claim 3, wherein the conductor is a shielded conductor
25 which covers the AC electrical wire.

6. An apparatus according to claim 5, wherein the AC electrical wire and the shield conductor which covers the AC electrical wire are accommodated in a conductive case which is grounded.

7. An apparatus according to claim 1, wherein the voltage measurement device is connected to a plurality of motors through relays.

8. An apparatus according to claim 2, wherein the conductor is connected to a plurality
5 of motors through relays.

9. An apparatus according to claim 1 or 2, further comprising
a display device displaying measurement results of the voltage measurement
according to their grades of insulation.

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10. A method of inspecting the insulation of a motor comprising steps of:
arranging a charged body electrically insulated from an electrical wire for
supplying a power to the motor near the motor electrical wire; and
measuring an electromotive force induced in the motor electrical wire by the
15 charged body.

11. A method of inspecting the insulation of a motor, a motor electrical wire for
supplying a power to the motor being electrically connected to a conductor, comprising
steps of:

20 arranging a charged body electrically insulated from the electrical wire and the
conductor near the electrical wire; and
measuring an electromotive force induced in the conductor by the charged body.